997 Functional Acknowledgment

Functional Group ID=FA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Notes:

- 1. Use this transaction set to acknowledge the receipt, and acceptance of rejection of a functional group and the transaction set(s) contained within it based upon EDI translation software syntax edits.
- 2. No acknowledgment of a Functional Acknowledgment transaction set, in the case of receipt and acceptance notification, shall be provided.
- 3. Trading Partners should limit the scope of the data provided in the case of transaction set receipt and rejection notification to the transaction set level, i.e., the 1/AK3/040 loop should not be used. However, if separate arrangements with trading partners of flexibility within the translation software do not permit this level of response, the procedures identified herein, as applicable to the 1/AK3/040 loop should be followed.

Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments n1
020	AK1	Functional Group Response Header	M	1		n2
		LOOP ID - AK2			999999	
030	AK2	Transaction Set Response Header LOOP ID - AK3	О	1	999999	n3
		LOOP ID - AKS			999999	
040	AK3	Data Segment Note	O	1		c1
050	AK4	Data Element Note	О	99		
060	AK5	Transaction Set Response Trailer	M	1		
070	AK9	Functional Group Response Trailer	M	1		
080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.

The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.

- There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- **2.** AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- **3.** AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

1. The data segments of this standard are used to report the results of the syntatical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Segment: ST Transaction Set Header

Position: 010

Loop:

Level:

Usage: Mandatory

Max Use:

Purpose: To indicate the start of a transaction set and to assign a control number

Notes:

Syntax Notes:

Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the invoice transaction set).

Comments:

>>	Ref. Des. ST01	Data Element 143	Name Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	Att M	<u>ribute</u> ID	<u>s</u> 3/3
			997 X12.20 Functional Acknowledgme	ent		
>>	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the functional group assigned by the originator for a transaction Use to transmit a unique number assigned by the originate transaction set. This number may be system generated.	n set		4/9 set

Segment: AK1 Functional Group Response Header

Position: 020

Loop:

Level:

Usage: Mandatory

Max Use:

Purpose: To start acknowledgment of a functional group.

Notes: 1. Use to identify the unique identification number of the functional group in which

the transaction set(s) being acknowledged was received.

2. Only one functional group may be referenced in a single 997 acknowledgment transaction set.

Syntax Notes:

Semantic Notes:

- 1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
- 2 AK102 is the data interchange control number found in the GS segment in the functional group being acknowledged.

Comments:

Data Element Summary

			Data Elem	ent Summary						
	Ref.	Data								
	Des.	Element	<u>Name</u>		Att	ribute	<u> </u>			
>>	$A\overline{K}101$	479	Functional Identifier	Code	$\overline{\mathbf{M}}$	ID	2/2			
			Code identifying a gro	up of application related Transaction	Sets.					
			CA	Purchase Order Change Acknowled Seller Initiated (865)	dgeme	ent/Re	quest -			
			FA	Functional Acknowledgement (997	7)					
				Use only when rejecting a Functio Acknowledgment, 997 transaction syntactical errors.						
			IN	Invoice Information (810, 819)						
			MS	Material Safety Data Sheet (848)						
			PC	Purchase Order Change Request - Buyer Initiated (860)						
			PO	Purchase Order (850)						
			PR	Purchase Order Acknowledgement	(855))				
			RA	Payment Order/Remittance Advice	(820))				
			RQ	Request for Quotation (840) and C (836)	ontrac	et Awa	ırd			
			RR	Response to Request For Quotation	ı (843	5)				
			RS	Order Status Information (869, 870))					
			SC	Price/Sales Catalog (832)						
			SH	Ship Notice/Manifest (856)						
			SP	Specifications/Technical Information	on (84	11)				
			TD	Trading Partner Profile (838)						
>>	AK102	28	Group Control Number original Assigned number original number	oer inated and maintained by the sender.	M	N0	1/9			

August 31, 1994

Use to identify the number cited in GS06 of the functional group being

acknowledged.

Segment: AK2 Transaction Set Response Header

Position: 030 Loop: AK2

Level:

Usage: Optional

Max Use:

Purpose: To start acknowledgment of a single transaction set.

Notes: Use to identify the unique identification number of the transaction set being

acknowledged.

Syntax Notes:

Semantic Notes:

- 1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
- 2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Comments:

Data Element Summary

			Data Elem	Cit Summar y			
	Ref.	Data					
	Des.	Element	<u>Name</u>		Att	ribute	e <u>s</u>
>>	AK201	143	Transaction Set Iden		M	ID	3/3
			Code uniquely identify	ying a Transaction Set.			
			810	X12.2 Invoice			
			820	X12.4 Payment Order/Remittance	Advic	e	
			832	X12.13 Price/Sales Catalog			
			836	X12.54 Contract Award			
			838	X12.17 Trading Partner Profile			
			840	X12.7 Request for Quotation			
			841	X12.51 Specifications/Technical In	form	ation	
			843	X12.8 Response to Request for Que	otatio	n	
			848	X12.36 Material Safety Data Sheet			
			850	X12.1 Purchase Order			
			855	X12.9 Purchase Order Acknowledg	ment		
			856	X12.10 Ship Notice/Manifest			
			860	X12.15 Purchase Order Change Re Initiated	quest	- Buy	er
			865	X12.16 Purchase Order Change			
			003	Acknowledgment/Request - Seller	[nitia	ted	
			869	X12.11 Order Status Inquiry			
			870	X12.23 Order Status Report			
			997	X12.20 Functional Acknowledgme	nt		
				Use only when rejecting a Function	nal		
				Acknowledgment, 997, transaction syntactical errors.		contair	ning

>> AK202 329 Transaction Set Control Number

M AN 4/9

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set *Use to identify the number cited in the ST02 of the transaction set being*

acknowledged.

Segment: AK3 Data Segment Note

Position: 040 Loop: AK3

Level:

Usage: Optional

Max Use:

Purpose: To report errors in a data segment and to identify the location of the data segment. **Notes:** 1. Use the 1/AK3/040 loop only when Trading Partner Agreements or translation

software do not permit the level of receipt and rejection reporting to be limited to the

group or transaction set level.

2. This 1/AK3/040 loop is used only to identify one or more segments containing syntactical errors resulting in rejection of the transaction set or functional group. This loop is not used when transaction set and functional group receipt and acceptance is being acknowledged.

3. Use to identify one or more segments containing syntax errors.

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data						
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>		
>>	AK301	721	Segment ID Code	\mathbf{M}	ID	2/3		
			Code defining the segment ID of the data segment in error.	See A	Append	lix A -		
			Number 77.					
			Use to identify the segment containing syntactical errors, a	ıs it a	ppear	s in the		
			ASC X12 Data Segment Dictionary, e.g., REF.					
>>	AK302	719	Segment Position in Transaction Set	M	N0	1/6		
			The numerical count position of this data segment from the	start	of the			
			transaction set: the transaction set header is count position	l.				
			Use to identify the segment sequential position within the data stream of the					
			transaction set as transmitted. This is not the segment por	traye	d in th	e		
			transaction set structure.					
\mathbf{X}	AK303	447	Loop Identifier Code	O	$\mathbf{A}\mathbf{N}$	1/4		
			The loop ID number given on the transaction set diagram is	the v	value fo	or this		
			data element in segments LS and LE					
>>	AK304	720	Segment Syntax Error Code	O	ID	1/3		
			Code indicating error found based on the syntax editing of	a seg	ment			
			1. Use only when a segment is being rejected to identify th	e bas	sis for			
			transaction set rejection.					
			2. Do not use when the error is in a data element within the	ie seg	gment.			
			3. Use any code.					
			Refer to 003040 Data Element Dictionary for acceptable co	do va	luge			
3 7	A 17205	720	_			1/2		
X	AK305	720	Segment Syntax Error Code	О	ID	1/3		
			Code indicating error found based on the syntax editing of	_				
\mathbf{X}	AK306	720	Segment Syntax Error Code	O	ID	1/3		
			Code indicating error found based on the syntax editing of	a segi	ment			

X	AK307	720	Segment Syntax Error Code	O	ID	1/3
			Code indicating error found based on the syntax editing of	a seg	ment	
X	AK308	720	Segment Syntax Error Code	O	ID	1/3
			Code indicating error found based on the syntax editing of	a seg	ment	

Segment: AK4 Data Element Note

Position: 050 Loop: AK3

Level:

Usage: Optional

Max Use: 99 Purpose: To repo

Notes: To report errors in a data element and to identify the location of the data element.

1. Use to identify an erroneous data element. The segment which contains the erroneous data element must be identified in the preceding AK3 segment.

2. Use multiple occurrences of this segment to identify one or more data element errors within the segment specified in the preceding AK3 segment.

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data	•			
	Des.	Element	<u>Name</u>	Att	ributes	<u>s</u>
>>	AK401	722	Element Position in Segment	M	N0	1/2
			This is used to indicate the relative position of the data element data segment. The count starts with 1 for the data element in following the segment ID. This value is 0 for an error in the Use to indicate the relative position of the data element consyntactical error within the segment. for example, in the Nindicates an error in element N101, 2 indicates and error in etc. (Note: An error in the segment ID is identified in the Ali	nmed segn staint I seg n elet	diately nent IC ing the ment: ment N). 1 1102,
	A TZ 400	5 25	need not be identified at this level.	•	NIO	1/4
	AK402	725	Data Element Reference Number Reference number used to locate the Data Element Dictional Use to identify the data element number as it appears in the Element Dictionary. For example, the data element number data element is 725.	ASO		
>>	AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data e	M leme	ID ent.	1/3
			Use any code. Refer to 003040 Data Element Dictionary for acceptable code.	la va	luoc	
3 7	A T7 40 4	504		_		1 /00
X	AK404	724	Copy of Bad Data Element This is a copy of the data element in error.	O	AN	1/99

Segment: AK5 Transaction Set Response Trailer

Position: 060 Loop: AK2

Level:

Usage: Mandatory

Max Use:

Purpose: To acknowledge acceptance or rejection and to report errors in a transaction set.Notes: 1. Use to indicate whether the transaction set indicated in the corresponding AK2

segment was accepted or rejected.

2. If the transaction set is rejected, use to identify up to five (5) syntax errors at the transaction set level.

Syntax Notes: Semantic Notes: Comments:

			Data E	iement Summary				
	Ref.	Data						
	Des.	Element	<u>Name</u>		Att	ribute	<u>s</u>	
>> AK501		717		cknowledgment Code	\mathbf{M}	ID	1/1	
			_	ecept or reject condition based on the syr	itax e	diting	of the	
			transaction set.					
			A	Accepted				
			E	Accepted But Errors Were Noted				
			R	Rejected				
			X	Rejected, Content After Decryption Analyzed	n Cou	ld Not	Be	
	AK502	718	Transaction Set S	yntax Error Code	O	ID	1/3	
			Code indicating er	ror found based on the syntax editing of	a trar	sactio	n set.	
			1. Use only when rejection.	a transaction set is being rejected to ide	entify	the ba	sis for	
			code may be used					
			3. When the 1/AK3/040 loop is not used and syntactical errors occurred below the transaction set level, use code 5.					
						.1		
		= 40		ata Element Dictionary for acceptable co			410	
	AK503	718		yntax Error Code	O	ID	1/3	
			•	ror found based on the syntax editing of			n set.	
				ata Element Dictionary for acceptable co	ode va	ılues.		
	AK504	718	Transaction Set S	yntax Error Code	O	ID	1/3	
			Code indicating er	ror found based on the syntax editing of	a tran	sactio	n set.	
			Refer to 003040 Data Element Dictionary for acceptable code values.					
	AK505	718	Transaction Set S	yntax Error Code	O	ID	1/3	
			Code indicating er	ror found based on the syntax editing of	a trar	sactio	n set.	
			Refer to 003040 Data Element Dictionary for acceptable code values.					
	AK506	718		yntax Error Code	O	ID	1/3	

Code indicating error found based on the syntax editing of a transaction set. Refer to 003040 Data Element Dictionary for acceptable code values.

Segment: AK9 Functional Group Response Trailer

Position: 070

Loop:

Level:

Usage: Mandatory

Max Use:

Purpose: To acknowledge acceptance or rejection of a functional group and report the number

of included transaction sets from the original trailer, the accepted sets, and the

received sets in this functional group.

Notes: 1. Use only to indicate whether the functional group was accepted or rejected based

on syntax errors in the functional group header or trailer.

2. If the functional group is rejected, use to identify up to five (5) syntax errors at the

functional group level.

Syntax Notes: Semantic Notes:

Comments: 1 If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

			Data Element Summary			
	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>
>>	AK901	715	Functional Group Acknowledge Code	\mathbf{M}	ID	1/1
			Code indicating accept or reject condition based on the syn	ıtax ed	liting	of the
			functional group.			
			A Accepted			
			E Accepted, But Errors Were Noted.			
			P Partially Accepted, At Least One T	'ransa	ction S	Set Was
			Rejected			
			R Rejected			
>>	AK902	97	Number of Transaction Sets Included	\mathbf{M}	N0	1/6
			Total number of transaction sets included in the functional	group	or	
			interchange (transmission) group terminated by the trailer of	contai	ning tl	nis data
			element.			
>>	AK903	123	Number of Received Transaction Sets	\mathbf{M}	N0	1/6
			Number of Transaction Sets received.			
>>	AK904	2	Number of Accepted Transaction Sets	\mathbf{M}	N0	1/6
			Number of accepted Transaction Sets in a Functional Grou	p.		
	AK905	716	Functional Group Syntax Error Code	O	ID	1/3
			Code indicating error found based on the syntax editing of	the fu	ınctior	nal
			group header and/or trailer.			
			1. Use only when a functional group is being rejected to i	dentif	y the l	basis for
			rejection.			
			2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. 1	1 1
			2. Use any code. Codes may also be used in AK906-09 b code may be used more than once.	ut no	inaivi	иан
			code may be used more than once.			
			Refer to 003040 Data Element Dictionary for acceptable co	ode va	lues.	
	AK906	716	Functional Group Syntax Error Code	O	ID	1/3
			Code indicating error found based on the syntax editing of	the fu	ınctior	nal
			_			

		group header and/or trailer.			
		Refer to 003040 Data Element Dictionary for acceptable	le code va	ılues.	
AK907	716	Functional Group Syntax Error Code	O	ID	1/3
		Code indicating error found based on the syntax editing group header and/or trailer. Refer to 003040 Data Element Dictionary for acceptable			nal
AK908	716	Functional Group Syntax Error Code	O	ID	1/3
		Code indicating error found based on the syntax editing group header and/or trailer. Refer to 003040 Data Element Dictionary for acceptable			nal
AK909	716	Functional Group Syntax Error Code	O	ID	1/3
		Code indicating error found based on the syntax editing group header and/or trailer. Refer to 003040 Data Element Dictionary for acceptable			nal

SE Transaction Set Trailer **Segment:**

080 **Position:**

Loop:

Level:

Usage: Mandatory

Max Use:

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments).

Notes:

Syntax Notes:

Semantic Notes:

1 SE is the last segment of each transaction set. **Comments:**

	Ref.	Data				
	Des.	Element	<u>Name</u>	Att	ribute	<u>s</u>
>>	SE01	96	Number of Included Segments	\mathbf{M}	N0	1/10
			Total number of segments included in a transaction set included segments.	uding	ST an	id SE
>>	SE02	329	Transaction Set Control Number	\mathbf{M}	$\mathbf{A}\mathbf{N}$	4/9
			Identifying control number that must be unique within the t functional group assigned by the originator for a transaction <i>Use the same number cited in ST02</i> .		ction s	et